

CYPERUS POLYSTACHYOS VAR. FILICINUS

HUGH O'NEILL

IN RHODORA 19: 153 (1917), Fernald states he is unable to find any absolute character by which to separate *C. microdontus* specifically from *C. filicinus*. He further states that "occasionally colonies show scales intermediate in length and clearly bridging the gap between the two." Measurements made by the author on a large number of specimens from widely separated points in the range, confirm Fernald's conclusion.

In das Pflanzenreich 4²⁰: 37 (1936) Kükenthal writes of *C. microdontus*: "Mihi magis *C. fugaci* Liebm. sese appropinquare videtur, nullam veram differentiam video." He suggests calling *C. microdontus*: *Cyperus polystachyos* Rottb. var. *leptostachyus* Boeck. f. *fugax* Liebm.

A study of a considerable number of specimens indicates *C. filicinus* Vahl and *C. polystachyos* Rottb. as the extremes of a single continuous series of closely intergradient forms. The following table shows the impossibility of making any clear separation of *C. microdontus* from *C. polystachyos* var. *leptostachyus* Boeck., i. e. var. *texensis* (Torr.) Fern.

A single tuft often shows both subcapitate and open-umbellate inflorescence and other characters of intermediate nature, e. g. *Langlois*, Pass Christian, Miss., Oct. 1882; *Martindale*, St. Augustine, Fla.; *Curtis*, Jacksonville, Fla. 3049; *O'Neill* 8994, British Honduras; *Tharp* 1766, Texas; *Correll* 5781, Fla.; *Chapman*, Fla.

It therefore seems appropriate to include *C. microdontus* under *C. polystachyos* var. *texensis* and to regard *C. filicinus* as:

C. POLYSTACHYOS Rottb. var. **filicinus** (Vahl) comb. nov. *C. filicinus* Vahl, Enum. Pl. 2: 332. 1806. MAINE: *Moldenke* 6364. NEW HAMPSHIRE: Port Monmouth, *Dautun*. MASSACHUSETTS: *Seymour* 1090; Newburyport, *Steele*; *Bartlett* 1397, 1400; Squantum, *Davis*; Watertown, *Steele*; Boston, *Forbes*; *Blake* 9660; *Fernald* 32; *Moore* 3237; Monomoy Point, *Brainerd*; Nantucket, *Deane*. RHODE ISLAND: Providence, *Congdon*; *Blake* 3050; Portsmouth, *Fox*; *Fernald and Long* 8832. CONNECTICUT: Stratford, *Eames*; New Haven, *Kleeberger*; *Harger* 6979; New Haven, *Schallert*. NEW YORK: Flushing, L. I., *Hunt*; *Miller* 41; Ocean Beach, *Lighthipe*; Northville, *Young*. NEW JERSEY: Cape May, *Witte*; *Rugel*; *Holmes* 426; Atlantic City, *Wheeler*; Ocean City, *Bro. Arsène*; *Moldenke* 4010; *Redfield* 8571. PENNSYLVANIA: Philadelphia, Navy Yard, *Porter*. DELAWARE: *Larsen* 358. MARYLAND: Worcester County, *Shreve*; *Bartlett* 1855; *Redmond* 500; Rock Point, *Holm*; *O'Neill* 7194 and 7192; *Smith* 395.

TABLE 1

CYPERUS POLYSTACHYOS Rottb.

	Spikelets	Bract	Achene	Infl.	Glume	Rays
Fernald & Long, Pl. Ex. Gray. 321. Mass.	1.5 x 8	1	1.0 x 0.4	Subcap.	1.8 x 1.0	1
¹ Curtiss 3050, Fla.	1.5 x 22	3	1.1 x 0.4	U. C.	2.0 x 1.3	7
Cory 20454, Texas	1.2 x 20	2	Unripe	Cap.	1.8 x 1.3	0
Seymour 7, Miss.	1.6 x 12	2	1.2 x 0.5	Subcap.	2.4 x 1.5	3
Reed, Duke 28885, N. C.	2.0 x 12	1	1.1 x 0.4	Subcap.	2.1 x 1.5	1
Moldenke 5270, Fla. (Same as Curtiss 3050)	1.8 x 30	3.5	1.1 x 0.4	Subcap.	2.0 x 1.2	0
O'Neill 7193, Md.	1.4 x 11	2	1.0 x 0.4	Subcap.	1.5 x 1.2	3
O'Neill 7204, Fla.	1.5 x 12	3	1.0 x 0.3	Umb.	1.5 x 1.1	5
(O'Neill 1067, 7206, 6233, 2597, 1123, 5089, 7205, 5257, 5258, 5259, 5260, 5261, 522 are all substantially the same as 7193 and 7204 and are all from Florida)						
Langlois, Bay St. Louis, Miss.	1.5 x 11	1	1.2 x 0.5	Subcap.	2.1 x 1.2	0
Mohr, Mobile 1897, Ala.	1.4 x 9	1	1.0 x 0.4	Subcap.	1.6 x 1.5	0
Uphof, Conway, Fla.	1.3 x 9	3	1.0 x 0.4	S. U.	1.8 x 1.2	3
² Wilson 487, Cuba	1.2 x 18	2	1.0 x 0.3	Umbell.	1.8 x 1.5	8
³ Killip 4037, Panama	1 x 8	2 or 3	1.0 x 1.4	Spikes few	1.5 x 1.5	1
⁴ Curtiss 3049, Fla.	1.3 x 12	3	1.0 x 1.4	Umbell.	2.0 x 1.5	5
Nash 2494, Fla.	1.3 x 12	2	1.0 x 1.4	Subcap.	1.7 x 1.5	0
O'Neill 8993, Guatemala	1.3 x 14	3	1.0 x 1.4	Subcap.	2.1 x 1.4	3
O'Neill 8995, British Honduras	1.3 x 18	3	1.0 x 0.3	S. U.	2.1 x 1.3	6
Lundell 4740, Yucatan	1.2 x 16	2	1.0 x 0.3	Cap.	2.0 x 1.3	0
Gentry 2045, Rio Mayo, Sonora, Mexico	1.5 x 18	2	1.2 x 0.5	Umbell.	2.0 x 1.2	4

¹ *C. polystachyos* var. *leptostachyus* f. *splendens* Kükenthal.

² Cited by C. B. Clarke as *Pycnus polystachyos* Beauv. var. *laxiflora* Ridley.

³ Determined by Standley as *C. fugax* Liebm.

⁴ Cited as *C. polystachyos* var. *leptostachyus* Boeckl. by Kükenthal.

Legend: Subcap. = Subcapitate

U. C. = Umbellate and Capitate

S. U. = Subcapitate and Umbellate

NORTH CAROLINA: Elizabeth City, *Bro. Marcellus*. ALABAMA: Mobile, *Mohr*; Mobile Bay, *Mohr*. FLORIDA: *Curtiss* 5718, 4079; Jacksonville, *Hitchcock*. LOUISIANA: *Tracy et Lloyd*, Breton Island; St. Martinville, Pointe a la Hache, *Langlois*.

C. POLYSTACHYOS Rottb. var. *TEXENSIS* (Torr.) Fern. MASSACHUSETTS: *Fernald* 321; *Bacigalupi* 1910, 2127. MARYLAND: *O'Neill* 7193 and 9077; *Smith* 398. DISTRICT OF COLUMBIA: *Steele* 1896. VIRGINIA: *Heller* 1213. NORTH CAROLINA: Oak Island, Roxboro, 7228, White Lake, 33630A, *Blomquist*; *Oosting* 33593, 33753; *Correll*, 4856; Caswell County, Beaufort Co., Wake Co., Orange Co., Franklin Co., New Hanover Co., *Reed*. SOUTH CAROLINA: Frogmore, *Cuthbert*. GEORGIA: *Svenson* 7227; *Reade* E8049; *McVaugh* 61, 205; *Bartlett* 968, 1156. ALABAMA: St. Bernard, *Wolf*; Mobile, *Mohr*; Auburn, *Earle*. FLORIDA: *Correll*, 5582, 5593, 5635, 5722, 5781, 5783, 5809, 5862, 5872, 5873, 5898, 5934, 5891, 5944, 5951, 6080, 6302, 6338, 6364, 6424; *Leonard* 1123; *O'Neill* 2597, 5258, 5259, 5257, 5262, 5261, 7204, 7206, 1067; *Scott*, Palatka; *Tracy* 7005; *Curtiss* 3049, 4078, 5004; *Moldenke* 494, 588, 798, 1042, 5780; *Nash* 482, 1023, 2494; *Deam* 1927, 2754; Eustis, *Hitchcock*; Ft. Myers, *Standley*; *McFarlin* 4718; Winter Park, *Uphof*; Jacksonville, *Leeds*; *Rugel* 606; Tampa, *Ferguson*; Gainesville, *Chester*; Naples, *Rhodes*. ARKANSAS: *Heller* 4131. TENNESSEE: *Svenson* 4372. MISSISSIPPI: Horn Island, *Seymour*; Ocean Springs, *Macfarlane*; Biloxi, *Tracy*; *Seymour* 7. LOUISIANA: *Palmer* 8943; Pointe a la Hache, St. Martinville, *Langlois*. TEXAS: *Tharp* 1766, 4629, 1777, 3204, 3203, 9184, 3043; San Jacinto River, 2373, *Tharp*; Texarkana, *Letterman*; Galveston, *Fisher*; Crosby, *Fisher*; *Cory* 20317, 30318, 20454; *Young* 7; *Ottine*, 6264, *Bogusch*; *Hall* 676; *Reverchon* 2283A; *Palmer* 10630; Angelina Co., *Boon*. MEXICO: *Gentry* 2045, 2040; *Salitral* 1576; Vera Cruz, *Fisher*. CUBA: *Wilson* 487, 1282, 1663, 1546; *Baker* 2417, 3543, 3450; *Shafer* 125; *Van Hermann* 131. CENTRAL AMERICA: *Lundell* 4740, 5004, 7004; *O'Neill* 8993, 8994, 8995, 8992; *Gentle* 1934; *Schipp* 920. BRAZIL: *Martius* 18880. ARGENTINA: *Venturi* 7116.

LANGLOIS HERBARIUM

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FURTHER NOTES ON COASTAL FLORAL ELEMENTS IN THE BOGS OF AUGUSTA COUNTY, VIRGINIA

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UPON examining the flora in southeastern Augusta County on the west slope of the Blue Ridge, there is noted a distinct and characteristic coastal floral element in association with other interesting plants primarily of the uplands, which are also considered in the discussion.